

POLYESTER COMPOSITIONS
FOR HOT-FILL CONTAINERS

ABSTRACT

Disclosed is a polyester composition comprising:

- I. a polyester consisting essentially of (i) diacid residues consisting essentially of terephthalic residues; and (ii) diol residues consisting essentially of about 92 to 98 mole percent ethylene glycol residues, about 1 to 4 mole percent diethylene glycol (DEG) residues, and about 1 to 4 mole percent 1,4-cyclohexanedimethanol (CHDM) residues; and having an inherent viscosity (η_{inh}) which satisfies the equations $\eta_{inh} \cdot X - Y = 0.74$ to 0.80 , wherein X is the mole fraction of CHDM and Y is the mole fraction of DEG; and
- II. at least one reheat enhancing aid in an amount sufficient to provide between about 5 and 25% reheat improvement. Also disclosed are heat set containers suitable for packaging hot-filled liquids and processes for the manufacture of such heat set containers.